Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-17-04-12** **Date: 27/02/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Providing Pipeline To the Existing Borewells in Ward No. 08 Kodigehalli

Agency : M/S. AAKAR CONSTRUCTION, SRI. SRIKANTH K S, Amco Layout, Kodigehalli, Sahakaranagara, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/167/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-02-2020

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	30/01/2020	27/02/2020	149.78 X 150.63 X 150.34	22562	**8.918**	533.5	23.6	23.1
2	PCC	M20	30/01/2020	27/02/2020	149.35 X 151.22 X 150.80	22584	**8.912**	504.1	22.3	
3	PCC	M20	30/01/2020	27/02/2020	149.25 X 149.95 X 150.34	22380	**8.093**	522.5	23.3	

Note:

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JE-WB

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-17-04-12** **Date: 06/02/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Providing Pipeline To the Existing Borewells in Ward No. 08 Kodigehalli

Agency : M/S. AAKAR CONSTRUCTION, SRI. SRIKANTH K S, Amco Layout, Kodigehalli, Sahakaranagara,

Customer's Reference : BBMP/EE/BTP/WO/167/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-02-2020

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	30/01/2020	06/02/2020	151.68 X 150.32 X 149.05	22799	**8.108**	427.5	18.8	18.8
2	PCC	M20	30/01/2020	06/02/2020	149.48 X 149.70 X 150.46	22378	**8.001**	419.4	18.7	
3	PCC	M20	30/01/2020	06/02/2020	150.13 X 149.78 X 150.79	22486	**8.971**	422.3	18.8	

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R KARTHIK RECHAN
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-17-04-12** **Date: 27/02/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Providing Pipeline To the Existing Borewells in Ward No. 08 Kodigehalli

Agency : M/S. AAKAR CONSTRUCTION, SRI. SRIKANTH K S, Amco Layout, Kodigehalli, Sahakaranagara, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/167/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-02-2020

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	30/01/2020	27/02/2020	150.97 X 149.47 X 151.80	22566	**8.918**	521.9	23.1	22.8
2	PCC	M20	30/01/2020	27/02/2020	149.04 X 151.39 X 151.76	22564	**8.912**	497.7	22.1	
3	PCC	M20	30/01/2020	27/02/2020	149.58 X 149.34 X 149.79	22339	**8.093**	521.6	23.3	

Note:

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JE-W8

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-17-04-12** **Date: 06/02/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Providing Pipeline To the Existing Borewells in Ward No. 08 Kodigehalli

Agency : M/S. AAKAR CONSTRUCTION, SRI. SRIKANTH K S, Amco Layout, Kodigehalli, Sahakaranagara,

Customer's Reference : BBMP/EE/BTP/WO/167/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-02-2020

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	30/01/2020	06/02/2020	151.02 X 149.33 X 149.92	22553	**8.108**	425.9	18.9	18.6
2	PCC	M20	30/01/2020	06/02/2020	151.05 X 151.35 X 150.23	22862	**8.001**	411.7	18.0	
3	PCC	M20	30/01/2020	06/02/2020	150.07 X 150.21 X 149.49	22541	**8.971**	425.5	18.9	

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R KARTHIK RECHAN
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Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
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Bangalore.

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-17-04-12** **Date: 27/02/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Providing Pipeline To the Existing Borewells in Ward No. 08 Kodigehalli

Agency : M/S. AAKAR CONSTRUCTION, SRI. SRIKANTH K S, Amco Layout, Kodigehalli, Sahakaranagara, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/167/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-02-2020

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	30/01/2020	27/02/2020	149.59 X 150.35 X 150.87	22490	**8.918**	531.9	23.6	23.1
2	PCC	M20	30/01/2020	27/02/2020	149.88 X 149.46 X 150.98	22400	**8.912**	501.0	22.4	
3	PCC	M20	30/01/2020	27/02/2020	149.47 X 150.30 X 149.93	22465	**8.093**	520.7	23.2	

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JE-W8

Assistant Executive Engineer,
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Yelahanka Zone, B.B.M.P.,
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Date

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-17-04-12** **Date: 06/02/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Providing Pipeline To the Existing Borewells in Ward No. 08 Kodigehalli

Agency : M/S. AAKAR CONSTRUCTION, SRI. SRIKANTH K S, Amco Layout, Kodigehalli, Sahakaranagara,

Customer's Reference : BBMP/EE/BTP/WO/167/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-02-2020

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	30/01/2020	06/02/2020	150.63 X 149.55 X 149.50	22526	**8.108**	412.3	18.3	
2	PCC	M20	30/01/2020	06/02/2020	150.89 X 149.98 X 149.30	22630	**8.001**	420.9	18.6	18.5
3	PCC	M20	30/01/2020	06/02/2020	149.53 X 151.09 X 150.64	22592	**8.971**	421.0	18.6	

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Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-17-04-12** **Date: 06/02/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

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Project Name : Providing Pipeline To the Existing Borewells in Ward No. 08 Kodigehalli

Agency : M/S. AAKAR CONSTRUCTION, SRI. SRIKANTH K S, Amco Layout, Kodigehalli, Sahakaranagara,

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Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-02-2020

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	30/01/2020	06/02/2020	151.21 X 149.47 X 150.56	22602	**8.108**	426.9	18.9	
2	PCC	M20	30/01/2020	06/02/2020	150.88 X 150.84 X 149.64	22759	**8.001**	423.6	18.6	18.7
3	PCC	M20	30/01/2020	06/02/2020	151.99 X 150.33 X 149.89	22849	**8.971**	427.8	18.7	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL Pro BANGALORE Sig. Date.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-17-04-12** **Date: 27/02/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Providing Pipeline To the Existing Borewells in Ward No. 08 Kodigehalli

Agency : M/S. AAKAR CONSTRUCTION, SRI. SRIKANTH K S, Amco Layout, Kodigehalli, Sahakaranagara, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/167/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-02-2020

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	30/01/2020	27/02/2020	151.73 X 149.35 X 150.19	22661	**8.918**	538.1	23.7	23.4
2	PCC	M20	30/01/2020	27/02/2020	149.56 X 150.40 X 151.04	22493	**8.912**	512.2	22.8	
3	PCC	M20	30/01/2020	27/02/2020	151.19 X 151.81 X 151.85	22952	**8.093**	543.5	23.7	

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Authorized Signatory
Quality Manager

CIVIL Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-17-04-12** **Date: 17-01-2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Providing Pipeline To the Existing Borewells in Ward No. 08 Kodigehalli

Agency : M/S. AAKAR CONSTRUCTION, SRI. SRIKANTH K S, Amco Layout, Kodigehalli,

Customer's Reference : BBMP/EE/BTP/WO/167/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-01-2020

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 15-01-2020

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	206	527	52.7	47.3	15-34	35-59	60-79	80-100
6	300 micron	203	730	73.0	27.0	5-20	8-30	12-40	15-50
7	150 micron	191	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-17-04-12** **Date: 17-01-2020**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-17-04-12** **Date: 17-01-2020**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing Pipeline To the Existing Borewells in Ward No. 08 Kodigehalli
Agency	:	M/S. AAKAR CONSTRUCTION, SRI. SRIKANTH K S, Amco Layout, Kodigehalli, Sahakaranagara, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/167/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-2020
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-01-2020

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	–

CIVIL Pro Sig..... Date.....

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-17-04-12** **Date: 17-01-2020**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.19	_
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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Bareeeth
JE-DS.

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

CIVIL Pro Sig. Date. BANGALORE

End of Report

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-17-04-12** **Date: 18-01-2020**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing Pipeline To the Existing Borewells in Ward No. 08 Kodigehalli
Agency	:	M/S. AAKAR CONSTRUCTION, SRI. SRIKANTH K S, Amco Layout, Kodigehalli, Sahakaranagara, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/167/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	15-01-2020
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-01-2020

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

JE-N8

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-17-04-12** **Date: 18-01-2020**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.17	–

Note:

The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig.

****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-17-04-12** **Date: 12-02-2020**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing Pipeline To the Existing Borewells in Ward No. 08 Kodigehalli
Agency	:	M/S. AAKAR CONSTRUCTION, SRI. SRIKANTH K S, Amco Layout, Kodigehalli, Sahakaranagara, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/167/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-2020
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	15-01-2020
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

Note:

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JE-08

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CIVIL PRO BANGALORE Sig. Date

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-17-04-12** **Date: 18-01-2020**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing Pipeline To the Existing Borewells in Ward No. 08 Kodigehalli
Agency	:	M/S. AAKAR CONSTRUCTION, SRI. SRIKANTH K S, Amco Layout, Kodigehalli, Sahakaranagara, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/167/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-2020
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	15-01-2020
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	180 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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FOR CIVIL Pro.

CIVIL PRO Sig. Date

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

****End of Report****